

5/8/2009 3:41:51 PM

5/8/2009 4:33:12 PM

[File 2] INSPEC 1898-2006/Feb W3
 [File 155] MEDLINE(R) 1951-2006/Feb 27
 [File 5] Biosis Previews(R) 1969-2006/Feb W3
 [File 6] NTIS 1964-2006/Feb W1 DSSSSSSS
 [File 8] Ei Compendex(R) 1970-2006/Feb W3
 [File 73] EMBASE 1974-2006/Feb 27
 [File 95] TEME-Technology & Management 1989-2006/Feb W4
 [File 35] Dissertation Abs Online 1861-2006/Feb
 [File 144] Pascal 1973-2006/Feb W1
 [File 99] Wilson Appl. Sci & Tech Abs 1983-2006/Jan
 [File 34] SciSearch(R) Cited Ref Sci 1990-2006/Feb W3
 [File 434] SciSearch(R) Cited Ref Sci 1974-1989/Dec
 [File 65] Inside Conferences 1993-2006/Feb W4
 [File 162] Global Health 1983-2006/Jan
 [File 164] Allied & Complementary Medicine 1984-2006/Feb
 [File 357] Derwent Biotech Res. 1982-2006/Feb W4
 [File 23] CSA Technology Research Database 1963-2006/Feb
 [File 60] ANTE: Abstracts in New Tech & Engineer 1966-2006/Feb
 [File 256] TecInfoSource 82-2006/Feb (c) 2006 Info.Sources Inc
 [File 987] TULSA (Petroleum Abs) 1965-2006/Feb W2
 [File 105] AESIS 1851-2001/Jul
 [File 103] Energy SciTec 1974-2006/Feb B2
 [File 58] GeoArchive 1974-2005/Jun
 [File 292] GEOBASE(TM) 1980-2006/Feb W4
 [File 89] GeoRef 1785-2006/Feb B2
 [File 239] Mathsci 1940-2006/Apr

Set	Items	Description
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S1	3306448	S MAGNET??? (2N) RESONA???? OR MRI OR MAGNET??? () RESONANCE () IMAG???? OR MR (2N) IMAG???? OR (MAGNET??? OR PARALLEL) (2N) IMAG???? OR NMR OR NUCLEAR () MAGNET??? OR FTNMR OR FTMRI OR MAGNETORESONA???? OR PMR OR PROTON () MAGNETIC () RESONA???? OR PARAMAGNET??? (2N) RESONA???? OR MAGNETI??? (2N) RELAX???? OR FERROMAGNET??? (2N) RESONA???? OR MAGNET??? (3N) SPECTRO???? OR MRS OR MRSI OR MRA OR MAGNET??? () RESONANCE () ANGIOGRAPH??? OR CSI OR CHEMICAL () SHIFT () IMAG???? OR EPR OR ELECTRON () PARAMAGNETIC () RESONANCE OR FMRI OR FUNCTION??? (2N) IMAG??? OR ESR OR ELECTRON () SPIN () RESONA??? OR SPIN (2N) RESONA??? OR NQR OR NUCLEAR (2N) RESONANCE
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S2	2568717	S (GENERAT???? OR PROCESS???? OR PRODUC???? OR ACQUI???????? OR RETRIEV???? OR RECOVER???? OR CAPTUR???? OR OBTAIN???? OR DELIVER??? OR PROVI???? OR DISPENS???? OR APPLY???? OR APPLI???? OR COLLECT??? OR MEASUR???? OR TEST???? OR DETERMIN???? OR ANALY???? OR DETECT???? OR SENS???? OR EVALUAT???? OR INVESTIGAT???? OR IDENTIF???????? OR CALCULAT???? OR COMPUT??? (3N) (MFC OR M () F () C OR MAGNETIC () FIELD () CORRELAT???? OR IMAG???)
----	---------	--

S3	10214604	S (PLURAL???? OR MANY OR MORE OR SEVERAL???? OR MULTI???? OR DIFFER???? OR NUMBER??? OR NUMEROUS OR VARI???? OR VARY???? OR SET OR SETS OR ARRAY??? OR CLUSTER???? OR NETWORK???? OR TWO OR COUPLE OR PAIR??? OR SECOND????) (3N) (ASYMMETRIC???? OR SPIN??? OR ECHO??? OR SEQUENC???? OR TRAIN??? OR SERIES OR PULS???? OR CHAIN??? OR SAMPL??? OR SUBSTRAT???? OR PATTERN???? OR SUBSTANCE??? OR OBJECT??? OR SPECIE??? OR PATIENT??? OR REGION??? OR AREA??? OR PORTION???) OR ADSE OR ASYMMETRIC??? () DUAL () SPIN () ECHO () SEQUENCE OR ECHO () PLANAR () IMAG??? OR EPI () ADSE
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S4	1249205	S (RESULT???? OR FINAL OR CONCLUD??? OR NET OR REFOCUS???? OR ROTAT?????) (3N) (DATA OR INFO OR INFORMATION OR IMAG??? OR SIGNAL??? OR PULS???)
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S5	3671700	S PROTON () GYROMAGNETIC () RATIO OR SIGNAL () INTENSITY OR T1 OR T1 OR T2 OR T2 OR SN OR SN OR GAMMA
----	---------	--

S6	48832	S CC=(A3240 OR A3325 OR A7600 OR A0758 OR A8760I OR B7510N)
S7	2934	S S1 AND S2 AND S3 AND S4 AND S5
S8	103	S S7 AND S6
S9	6767	S S1 (3N) S2 (3N) S3
S10	821	S S9 AND S4
S11	273	S S10 AND S5
S12	13	S S11 AND S6
S13	12	RD (unique items)
S14	357	S S1 (3N) S2 (3N) S3 (3N) S4
S15	112	S S14 AND S5
S16	4	S S15 AND S6

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S17	4	RD (unique items)
S18	10299	S S1(3N)S2(3N)S5
S19	2586	S S18 AND S3
S20	449	S S19 AND S4
S21	449	S S20 AND S5
S22	309	S S21 NOT PY>2003
S23	58	S S8 NOT PY>2003
S24	119	S S2(3N)S3(3N)S4(3N)S5
S25	106	S S24 AND S1
S26	5	S S25 AND S6
S27	5	RD (unique items)
S28	3	S S27 NOT S17
S29	9	S S13 NOT (S17 OR S27)

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[File 344] Chinese Patents Abs Jan 1985-2006/Jan
 [File 347] JAPIO Dec 1976-2008/Oct(Updated 090220)
 [File 350] Derwent WPIX 1963-2008/UD=200913
 [File 371] French Patents 1961-2002/BOPI 200209

Set	Items	Description
S1	95026	S MAGNET??? (2N) RESONA???? OR MRI OR MAGNET??? () RESONANCE () IMAG???? OR MR (2N) IMAG???? OR (MAGNET??? OR PARALLEL) (2N) IMAG???? OR NMR OR NUCLEAR () MAGNET??? OR FTNMR OR FTMRI OR MAGNETORESONA???? OR PMR OR PROTON () MAGNETIC () RESONA???? OR PARAMAGNET??? (2N) RESONA???? OR MAGNETI??? (2N) RELAX???? OR FERROMAGNET??? (2N) RESONA???? OR MAGNET??? (3N) SPECTRO???? OR MRS OR MRSI OR MRA OR MAGNET??? () RESONANCE () ANGIOGRAPH??? OR CSI OR CHEMICAL () SHIFT () IMAG???? OR EPR OR ELECTRON () PARAMAGNETIC () RESONANCE OR FMRI OR FUNCTION??? (2N) IMAG??? OR ESR OR ELECTRON () SPIN () RESONA??? OR SPIN (2N) RESONA???? OR NQR OR NUCLEAR (2N) RESONANCE
S2	945278	S (GENERAT???? OR PROCESS???? OR PRODUC???? OR ACQUI???????? OR RETRIEV???? OR RECOVER???? OR CAPTUR???? OR OBTAIN???? OR DELIVER???? OR PROVI???? OR DISPENS???? OR APPLY???? OR APPLI???? OR COLLECT??? OR MEASUR???? OR TEST???? OR DETERMIN???? OR ANALY???? OR DETECT???? OR SENS???? OR EVALUAT???? OR INVESTIGAT???? OR IDENTIF???????? OR CALCULAT???? OR COMPUT??? (3N) (MFC OR M () F () C OR MAGNETIC () FIELD () CORRELAT???? OR IMAG???)
S3	2054395	S (PLURAL???? OR MANY OR MORE OR SEVERAL???? OR MULTI???? OR DIFFER???? OR NUMBER??? OR NUMEROUS OR VARI???? OR VARY???? OR SET OR SETS OR ARRAY??? OR CLUSTER???? OR NETWORK???? OR TWO OR COUPLE OR PAIR??? OR SECOND????) (3N) (ASYMMETRIC???? OR SPIN??? OR ECHO???? OR SEQUENC???? OR TRAIN??? OR SERIES OR PULS???? OR CHAIN??? OR SAMPL??? OR SUBSTRAT???? OR PATTERN???? OR SUBSTANCE??? OR OBJECT??? OR SPECIE??? OR PATIENT??? OR REGION??? OR AREA??? OR PORTION???) OR ADSE OR ASYMMETRIC??? () DUAL () SPIN () ECHO () SEQUENCE OR ECHO () PLANAR () IMAG??? OR EPI () ADSE
S4	306251	S (RESULT???? OR FINAL OR CONCLUD??? OR NET OR REFOCUS???? OR ROTAT?????) (3N) (DATA OR INFO OR INFORMATION OR IMAG??? OR SIGNAL??? OR PULS???)
S5	303883	S PROTON () GYROMAGNETIC () RATIO OR SIGNAL () INTENSITY OR T1 OR T1 OR T2 OR T2 OR SN OR SN OR GAMMA
S6	465	S IC=(G01N-024/00)
S7	12900	S MC=(S01-E02A2 OR S03-E07A OR S03-E14H6 OR S05-C03)
S8	126	S S1 AND S2 AND S3 AND S4 AND S5
S9	1	S S8 AND S6
S10	50	S S8 AND S7
S11	1449	S S1 (3N) S2 (3N) S3
S12	298	S S11 AND S4
S13	34	S S12 AND S5
S14	0	S S13 AND S6
S15	22	S S13 AND S7
S16	910	S (MFC OR M () F () C OR MAGNETIC () FIELD () CORRELATION)
S17	0	S S16 AND S6
S18	2	S S16 AND S7
S19	161	S S2 (3N) S3 (3N) S5
S20	53	S S19 AND S1
S21	15	S S20 AND S4
S22	1	S S20 AND S6
S23	16	S S20 AND S7
S24	1	S S1 (3N) S16
S25	12	S S1 AND S16
S26	34	S S1 (3N) S2 (3N) S3 (3N) S5
S27	9	S S26 AND S4
S28	0	S S26 AND S6
S29	13	S S26 AND S7
S30	108	S S1 (3N) S2 (3N) S3 (3N) S4
S31	14	S S30 AND S5
S32	0	S S30 AND S6
S33	45	S S30 AND S7
S34	6	S S1 (3N) S2 (3N) S3 (3N) S4 (3N) S5
S35	28	S S16 AND S5
S36	3	S S35 AND S1
S37	3	S S35 AND S2

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S38 7 S S35 AND S3
 S39 1 S S35 AND S4
 S40 2 S S18 NOT S9
 S41 1 S S22 NOT (S9 OR S18)
 S42 0 S S24 NOT (S9 OR S18 OR S22)
 S43 9 S S27 NOT (S9 OR S18 OR S22 OR S24)
 S44 2 S S34 NOT (S9 OR S18 OR S22 OR S24 OR S27)
 S45 1 S S36 NOT (S9 OR S18 OR S22 OR S24 OR S27 OR S34)
 S46 1 S S37 NOT (S9 OR S18 OR S22 OR S24 OR S27 OR S34 OR S36)
 S47 5 S S38 NOT (S9 OR S18 OR S22 OR S24 OR S27 OR S34 OR S36 OR S37)
 S48 0 S S39 NOT (S9 OR S18 OR S22 OR S24 OR S27 OR S34 OR S36 OR S37 OR S38)

 S49 9 S S29 NOT (S9 OR S18 OR S22 OR S24 OR S27 OR S34 OR S36 OR S37 OR S38 OR S39)

 S50 9 S S25 NOT (S9 OR S18 OR S22 OR S24 OR S27 OR S29 OR S34 OR S36 OR S37 OR S38 OR S39)

 S51 8 S S23 NOT (S9 OR S18 OR S22 OR S24 OR S25 OR S27 OR S29 OR S34 OR S36 OR S37 OR S38 OR S39)

 S52 4 S S21 NOT (S9 OR S18 OR S22 OR S23 OR S24 OR S25 OR S27 OR S29 OR S34 OR S36 OR S37 OR S38 OR S39)

 S53 7 S S31 NOT (S9 OR S18 OR S21 OR S22 OR S23 OR S24 OR S25 OR S27 OR S29 OR S34 OR S36 OR S37 OR S38 OR S39)

 S54 9 S S15 NOT (S9 OR S18 OR S21 OR S22 OR S23 OR S24 OR S25 OR S27 OR S29 OR S31 OR S34 OR S36 OR S37 OR S38 OR S39)

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Fri, 8 May 2009, 4:16:05 PM EST

Search Query Display



Recent Search Queries

Results

- | | | |
|----|--|---|
| #1 | (((magnetic field correlation))<in>metadata)) <and> (pyr >= 1950 <and> pyr <= 2003) | 0 |
| #2 | (((mfc and (mri or (magnetic resonance) or nmr))<in>metadata)) <and> (pyr >= 1950 <and> pyr <= 2003) | 0 |

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	29	("20030081818" "20070194788" "20080014149" "20080119721" "20080124281" "20080197841" "20090072826" "6150815" "6332088" "6441613" "6526306" "6674282" "6700375" "7200430" "7457653").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT	ADJ	ON	2009/05/11 11:50
L2	17	("4703268" "4720679" "4788500" "4837513" "4986272" "5168227" "5202631" "5214382" "5218964" "5245282" "5280245" "5296809" "5446384" "5459401").PN. OR ("6332088").URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/05/11 11:55
L3	108	magnetic field correlation	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/05/11 12:02
L4	263304	NMR OR MRI or (magnetic resonance)	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/05/11 12:03
L5	4	3 and 4	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/05/11 12:03
L6	8	magnetic field correlation	EPO; JPO; DERWENT	ADJ	ON	2009/05/11 12:05
L7	2	asymmetric spin echo	EPO; JPO; DERWENT	ADJ	ON	2009/05/11 12:12
L8	1	"6380739".pn.	EPO; JPO; DERWENT	ADJ	ON	2009/05/11 12:22
L9	1	"6380739".pn.	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/05/11 12:22
L10	6	("6380739").URPN.	USPAT	ADJ	ON	2009/05/11 12:22
S1	2	"20060160242"	US-PGPUB; USPAT; EPO; JPO; DERWENT	ADJ	ON	2009/05/08 14:53
S2	1	2005-152110.NRAN.	DERWENT	ADJ	ON	2009/05/08 16:37

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6/9/4 (Item 4 from file: 2) [Links](#)

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10022909

Title: Magnetic field correlation imaging

Author(s): Jensen, J.H.; Chandra, R.; Ramani, A.; Hanzhang Lu; Johnson, G.; Lee, S.-P. ; Kaczynski, K.; Helpem, J.A.

Author Affiliation: Dept. of Radiol., New York Univ., NY, USA

Journal: Magnetic Resonance in Medicine , vol.55 , no.6 , pp.1350-61

Publisher: Wiley

Country of Publication: USA

Publication Date: June 2006

ISSN: 0740-3194

SICI: 0740-3194(200606)55:6L:1350:MFCI;1-3

CODEN: MRMEEN

Item Identifier (DOI): [10.1002/mrm.20907](#)

Language: English

Document Type: Journal Paper (JP)

Treatment: Experimental (X)

Abstract: A magnetic resonance imaging (MRI) method is presented for estimating the magnetic field correlation (MFC) associated with magnetic field inhomogeneities (MFIs) within biological tissues. The method utilizes asymmetric spin echoes and is based on a detailed theory for the effect of MFIs on nuclear magnetic resonance (NMR) signal decay. The validity of the method is supported with results from phantom experiments at 1.5 and 3 T, and human brain images obtained at 3 T are shown to demonstrate the method's feasibility. The preliminary results suggest that MFC imaging may be useful for the quantitative assessment of iron within the brain (39 refs.)

Subfile(s): A (Physics); B (Electrical & Electronic Engineering)

Descriptors: biological tissues; biomedical MRI; brain; iron; magnetic fields; neurophysiology; phantoms; spin echo (NMR)

Identifiers: magnetic field correlation imaging; magnetic resonance imaging; MRI; magnetic field inhomogeneities; biological tissues; asymmetric spin echo; nuclear magnetic resonance; NMR; phantom; human brain image; quantitative assessment; iron; 1.5 T; 3 T

Classification Codes: A8760I (Medical magnetic resonance imaging and spectroscopy); A8740 (Biomagnetism); A8770E (Patient diagnostic methods and instrumentation); A8730 (Biophysics of neurophysiological processes); B7510N (Biomedical magnetic resonance imaging and spectroscopy)

Numerical Indexing: magnetic flux density: 1.5E+00 T ; magnetic flux density: 3.0E+00 T

INSPEC Update Issue: 2006-032

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6/9/1 (Item 1 from file: 2) [Links](#)

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11449509

Title: Magnetic field correlation as a measure of iron-generated magnetic field inhomogeneities in the brain

Author(s): Jensen, J.H.; Szulc, K.; Caixia Hu; Ramani, A.; Hanzhang Lu; Liang Xuan; Falangola, M.F.; Chandra, R.; Knopp, E.A.; Schenck, J.; Zimmerman, E.A.; Helpert, J.A.

Author Affiliation: Dept. of Radiol., New York Univ., New York, NY, USA; Gen. Electr. Global Res. Center, Schenectady, NY, USA; Dept. of Neurology, Albany Med. Coll., Albany, NY, USA

Journal: Magnetic Resonance in Medicine, vol.61, no.2, pp.481-5

Publisher: John Wiley & Sons Inc.

Country of Publication: USA

Publication Date: Feb. 2009

ISSN: 0740-3194

CODEN: MRMEEN

Item Identifier (DOI): [10.1002/mrm.21823](#)

Language: English

Document Type: Journal Paper (JP)

Treatment: Practical (P); Experimental (X)

Abstract: The magnetic field correlation (MFC) at an applied field level of 3 Tesla was estimated by means of MRI in several brain regions for 21 healthy human adults and 1 subject with aceruloplasminemia. For healthy subjects, highly elevated MFC values compared with surrounding tissues were found within the basal ganglia. These are argued as being primarily the result of microscopic magnetic field inhomogeneities generated by nonheme brain iron. The MFC in the aceruloplasminemia subject was significantly higher than for healthy adults in the globus pallidus, thalamus and frontal white matter, consistent with the known increased brain iron concentration associated with this disease. Magn Reson Med 61:481-485, 2009. (c) 2009 Wiley-Liss, Inc. (20 refs.)

Subfile(s): A (Physics); B (Electrical & Electronic Engineering)

Descriptors: biomedical MRI; brain; iron

Identifiers: magnetic field correlation; iron-generated magnetic field inhomogeneities; MFC; brain MRI; aceruloplasminemia; basal ganglia; microscopic magnetic field inhomogeneities; nonheme brain iron; globus pallidus; thalamus; frontal white matter; brain iron concentration

Classification Codes: A8740 (Biomagnetism); A8730 (Biophysics of neurophysiological processes); A8760I (Medical magnetic resonance imaging and spectroscopy); A8770E (Patient diagnostic methods and instrumentation); B7510N (Biomedical magnetic resonance imaging and spectroscopy)

INSPEC Update Issue: 2009-009

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